

**Title:**

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1:2018.

**Notified Body No:**

0833

**Product Name:**

Tufted Modular Carpet Tiles with Invista yarn

**Report No:**

WF 428125

**Issue No:**

1

**Prepared for:**

Amtico International,  
Kingfield Road,  
Coventry,  
Warwickshire,  
CV6 5AA

**Date:**

17<sup>th</sup> April 2020

## 1. Introduction

This classification report defines the classification assigned to a family of Invista Antron Lumena nylon fibre face modular carpet tiles, in accordance with the procedures given in EN 13501-1:2018

## 2. Details of classified product

### 2.1 General

The products Invista Antron Lumena nylon fibre face modular carpet tiles, are defined as being suitable for floor covering applications.

### 2.2 Product description

The products, Invista Antron Lumena nylon fibre face modular carpet tiles, are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Tufted Modular Carpet Tile	
Carpet	Product reference of floor covering	Amtico Cable, Croft, Sierra, Atlas, Social, Philadelphia, Seattle, Check, Colour Anchor, Stock, Variations, and Elemental	
	Name of manufacturer of floor covering	Mannington Mills Inc.	
	Overall thickness of floor covering	5.9 - 7.7mm	
	Overall weight per unit area of floor covering	3348 - 4729g/m <sup>2</sup>	
	Colour	Any	
	Carpet tile construction		
	Pile	Generic type	Nylon 6,6
		Product reference	<b>See Note 1</b>
		Name of manufacturer	Invista Yarn
		Pile height above the backing	2.2- 4.3mm
		Density / weight per unit area	0.14 – 0.21 g/m <sup>3</sup>
		Trade name of flame retardant	Not Applicable
		Generic type of flame retardant	Not Applicable
	Pre-coat	Amount of flame retardant	Not Applicable
		Generic type	Filled PVC latex
		Detailed description / composition details	Filled PVC latex
		Name of manufacturer	Mannington Commercial
Thickness		<b>See Note 3</b>	
Density / weight per unit area		1187 – 1.356 g/m <sup>2</sup>	
Colour		Not applicable	
Trade name of flame retardant	CG 60 Aluminium Trihydrate		
Generic type of flame retardant	Aluminium Trihydrate		
Amount of flame retardant	678g/m <sup>2</sup> equivalent to 50%		

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Carpet (continued)	Primary backing	Generic type	Polyester
		Product reference	Polybac
		Detailed description / composition details	100% Woven Polyester
		Name of manufacturer	Propex
		Thickness	<b>See Note 3</b>
		Density / weight per unit area	122-155g/m <sup>2</sup>
		Colour reference	Not applicable
		Trade name of flame retardant	<b>See Note 2</b>
		Generic type of flame retardant	<b>See Note 2</b>
	Amount of flame retardant	<b>See Note 2</b>	
	Backing	Generic type	Filled PVC
		Product reference	6E
		Detailed description / composition details	Extruded, plasticised, filled PVC
		Name of manufacturer	Mannington Commercial
		Thickness	2.8mm to 3.3mm
		Density / weight per unit area	1525g/m <sup>2</sup> to 1695/m <sup>2</sup>
		Colour reference	Black
		Trade name of flame retardant	<b>See Note 2</b>
		Generic type of flame retardant	<b>See Note 2</b>
Amount of flame retardant	<b>See Note 2</b>		
Brief description of manufacturing process		(1) Yarn Processed (2) Tufted (3) Primary Backed (4) Modular Coating (5) Extruded Backing Applied (6) Cut (7) boxed	

**Note 1:** The sponsor stated that a product reference has not been assigned to this component.

**Note 2:** The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

**Note 3:** The sponsor was unable to provide this information.

### 3. Test reports/extended application reports & test results in support of classification

#### 3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Mannington	WF 351169	EN ISO 11925-2
Warringtonfire	Amtico	WF 376807, WF 376808	EN ISO 9239-1
Warringtonfire	Amtico	WF 424920, WF 427238	EN ISO 9239-1

#### 3.2 Test results

Test method & test number	Parameter		No. tests	Results	
				Continuous parameter - mean (m)	Compliance with parameters
EN ISO 9239-1	Critical flux		3, 3	10.1, 9.1, 7.4, 6.5	Compliant
	Smoke			393, 306, 106, 65	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	Fs	6	≤ 15 mm	Compliant
		Flaming droplets/particles		None	Compliant
	(15s exposure – edge of decorative face)	Fs	6	≤ 30 mm	Compliant
		Flaming droplets/particles		None	Compliant

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1:2018

##### 4.2 Classification

The products, Invista Antron Lumena nylon fibre face modular carpet tiles, in relation to their reaction to fire behaviour are classified:

**C<sub>FL</sub>**

The additional classification in relation to smoke production is:

**s1**

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
C <sub>FL</sub>	-	s	1

i.e. C<sub>FL</sub> – s1

**Reaction to fire classification: C<sub>FL</sub> – s1**

##### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications
- ii) Floorcovering applications applied over any substrate with a minimum density of 1800 kg/m<sup>3</sup>, having a minimum thickness of 8 mm and a fire performance of A2-s1, d0 or better.-
- iii) Installed with/without adhesive -

This classification is also valid for the following product parameters:

Product thickness	5.9 - 7.7 mm
Product density	3348 – 4729 g/m <sup>2</sup>
Floorcovering composition	No variation allowed
Floorcovering construction	No variation allowed
<b>Colour/Pattern</b>	Any variation allowed

## 5. Limitations

This classification document does not represent type approval or certification of the product.

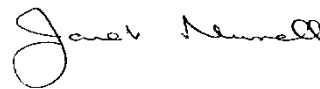
### SIGNED



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**Katie Williams**  
Certification Engineer

### APPROVED



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**Janet Murrell**  
Technical Manager  
on behalf of **Warringtonfire**

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